



SS 2682 02-22-02 #5 BT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): **Hardial Singh GILL**

Serial No.: **09/928,254**

Filed: **August 10, 2001**

Title: **A BALUN AND A MIXER AND DOWN-
CONVERTER INCORPORATING SAME**

Attorney Docket No.: **P/62406**

Group Art Unit:

Examiner:

RECEIVED

FEB 04 2002

Technology Center 2000

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

X under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

— under 37 CFR 1.97(c) together with either a:
— Statement under 37 CFR 1.97(e), or
— a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

— under 37 CFR 1.97(d) together with a:
— Statement under 37 CFR 1.97(e), and
— a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware.

Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

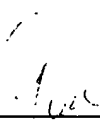
Respectfully submitted,

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit: December 19, 2001

Typed Name: Alan ISRAEL

Signature: 



Alan Israel
Attorney/Agent for Applicant(s)
Reg. No. 27564

Date: December 19, 2001

Telephone No.: 212-697-3750

CLOSURE

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are re-

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Skeat

-of

1

Application Number

09/928,254

Filing Date

August 10, 2001

First Named Inventor

Hardial GILL

Group Art Unit

Examiner Name

Attorney Docket Number

P/62406

U.S. PATENT DOCUMENTS

[illegible]

RECEIVED
FEB 04 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
to a collection of information unless it displays a valid OMB control number.

~~Under the Paperwork Reduction Act of 1995, no persons are required to respond~~

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

JAN 16 1967 (use as)

(use as many sheets as necessary)

Street

of

2

Complete if Known

Application Number	09/928,254
--------------------	------------

Filing Date	August 10, 2001
-------------	-----------------

First Named Inventor	Hardial GILL
----------------------	--------------

Group Art Unit

Examiner Name	
Attorney Docket Number	P/62406

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examin
Initials*

Cite

Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

Ryu Y I, et al., *A MONOLITHIC BROADBAND DOUBLY BALANCED EHF HBT STAR MIXER WITH NOVEL MICROSTRIP BALUNS*, IEEE MTT-S International Microwave Symposium Digest, U.S., New York, IEEE, May 16, 1995, pp. 119-122.

THREE BALUN DESIGNS FOR PUSH-PULL AMPLIFIERS, TRW, Application Note, 7 pages.

A MONOLITHIC OR HYBRID BROADBAND COMPENSATED BALUN, Anthony M. Pavo, et al., IEEE MTT-S Digest, 1990, pp. 483-486.

RECEIVED

~~FEB 04 2002~~

Technology Center 2600

**Examiner
Signature**

Date Considered

<p>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>	<p>Considered</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.